

Monpropellant Thrusters



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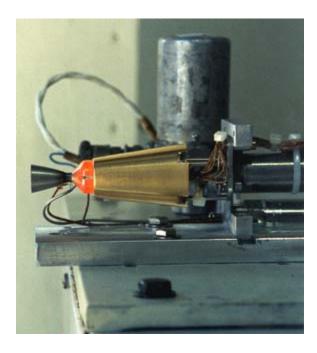
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"Green" Monopropellant Developed for Spacecraft



Hydroxylammonium nitrate (HAN)-based monopropellant thruster test at Primex Aerospace. (Copyright Primex Aerospace Company; used with permission.)

The NASA <u>Lewis</u> Research Center and Primex Aerospace Company have developed a "green" monopropellant and thruster for replacement of the toxic hydrazine thrusters presently being used on most spacecraft. The thruster developed is a derivative of the Primex 1-lbf hydrazine MR-111C and operates on a hydroxylammonium nitrate (HAN)-based monopropellant. Initial thruster tests have resulted in a specific impulse of 195 sec and a density-specific impulse of 275 g-sec/cm³ (which is 25-percent greater than for state-of-the-art hydrazine thrusters).

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Programs/Projects: Projects that use hydrazine or cold gas thrusters





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